

# Technical Data

## Unguyed

Mast Type	TM 170/4.7-1.0	TM 170/10-1.9	TM 170/15-2.7	TM 210/4.8-1.1	TM 210/10-1.95	TM 210/15-2.7	TM 300/18-2.8
Elevated length overall (m), <b>ft</b>	4.7 <b>15.4</b>	10 <b>33</b>	15 <b>50</b>	4.8 <b>15.7</b>	10 <b>33</b>	15 <b>50</b>	18.0 <b>59</b>
Retracted length overall (m), <b>ft</b>	1.0 <b>3.3</b>	1.9 <b>6.2</b>	2.7 <b>8.8</b>	1.1 <b>3.6</b>	1.95 <b>6.4</b>	2.7 <b>8.8</b>	2.8 <b>9.2</b>
Max antenna area CxA (m <sup>2</sup> ), <b>ft<sup>2</sup></b>	0.5 <b>5.4</b>	0.5 <b>5.4</b>	0.5 <b>5.4</b>	0.3 <b>3.2</b>	0.3 <b>3.2</b>	0.3 <b>3.2</b>	1.75 <b>19</b>
Number of sections	7	7	7	7	7	7	8
Weight: Mast (kg), <b>lbs</b>	45 <b>99</b>	70 <b>154</b>	100 <b>220</b>	85 <b>187</b>	110 <b>242</b>	138 <b>304</b>	270 <b>594</b>
Wind speed survival (m/s), <b>mph</b>	44 <b>98</b>	35 <b>78</b>	25 <b>56</b>	25 <b>56</b>	25 <b>56</b>	25 <b>56</b>	30 <b>67</b>
Max vertical topload (kg), <b>lbs</b>	90 <b>200</b>	90 <b>200</b>	50 <b>110</b>	148 <b>325</b>	148 <b>325</b>	148 <b>325</b>	70 <b>154</b>
Time for elevation (s)	20	40	60	30	55	80	80
Voltage (VDC)	28	28	28	28	28	28	28
Max. slope of vehicle	10°	10°	10°	5°	5°	5°	3°
Power consumption (W)	300	300	300	600	600	600	

## Heavy Duty

Mast Type	TM 150/18-4.3	NATO TM150/20-4.9	TM 150/25-5.9	TM 170/25-4.8	TM 190/29-6	TM 210/24.5-5
Elevated length overall (m), <b>ft</b>	18 <b>59</b>	20 <b>66</b>	25.0 <b>82</b>	25.2 <b>82</b>	30 <b>98</b>	24.5 <b>80</b>
Retracted length overall (m), <b>ft</b>	4.3 <b>14</b>	4.9 <b>16</b>	5.9 <b>19</b>	4.8 <b>16</b>	6.0 <b>20</b>	5.0 <b>16</b>
Max antenna area CxA (m <sup>2</sup> ), <b>ft<sup>2</sup></b>	1.2 <b>13</b>	1.0 <b>11</b>	0.8 <b>9</b>	0.8 <b>9</b>	1.5 <b>15</b>	1.4 <b>15</b>
Stay radius (m), <b>ft</b>	8.7/12 <b>28/39</b>	8.7/12 <b>28/39</b>	8.7/12 <b>28/39</b>	8.7/12 <b>28/39</b>	14.5/18.5 <b>47/61</b>	7/12.5 <b>23/41</b>
Number of sections	5	5	5	6	6	6
Number of stays x levels	3x4	3x4	3x4	3x4	3x4	3x4
Max Wind speed survival (m/s), <b>mph</b>	30 <b>67</b>	30 <b>67</b>	30 <b>67</b>	27.8 <b>62</b>	30 <b>67</b>	31 <b>69</b>
Max vertical topload (kg) <b>lbs</b>	70 <b>154</b>	70 <b>154</b>	60 <b>132</b>	40 <b>88</b>	80 <b>176</b>	100 <b>220</b>
Antenna attachment (mm)	ø66	ø66	ø66	ø66	ø66	ø66
Weight: Mast (kg) <b>lbs</b>	86 <b>189</b>	93 <b>205</b>	105 <b>231</b>	123 <b>270</b>	190 <b>418</b>	231 <b>508</b>
Accessories (kg) <b>lbs</b>	77 <b>169</b>	77 <b>169</b>	77 <b>169</b>	102 <b>224</b>	150 <b>330</b>	150 <b>330</b>

## Lightweight

Mast Type	TM 100/10-2.4	TM 128/10-3.1	TM 128/14.2-3.3	TM 128/15-2.9	TM 128/15-2.9 (HCLOS)	TM 128/18-3.7	TM 128/18-4.2
NSN no. 5985-	01-484-0908	tdb	25-126-9148	01-248-4760	01-465-2883		
AB no.		tdb	AB 177 N	AB 1339/G	AB 1339 A/G		
Elevated length over all (m) <b>ft</b>	10 <b>33</b>	10 <b>33</b>	14.2 <b>47</b>	15 <b>49</b>	15 <b>49</b>	18 <b>59</b>	18 <b>59</b>
Retracted length over all (m) <b>ft</b>	2.4 <b>8</b>	3.1 <b>10</b>	3.3 <b>11</b>	2.9 <b>9.5</b>	2.9 <b>9.5</b>	3.7 <b>12</b>	4.2 <b>14</b>
Max antenna area CxA (m <sup>2</sup> ) <b>ft<sup>2</sup></b>	0.16 <b>1.7</b>	1.25 <b>13</b>	1.0 <b>11</b>	0.3 <b>3</b>	0.69 <b>7</b>	0.8 <b>9</b>	1.0 <b>11</b>
Weight: Mast (kg) <b>lbs</b>	19 <b>42</b>	45 <b>99</b>	49 <b>108</b>	50 <b>110</b>	50 <b>110</b>	62 <b>136</b>	59 <b>130</b>
Accessories (kg) <b>lbs</b>	19 <b>42</b>	45 <b>99</b>	38 <b>84</b>	40 <b>88</b>	40 <b>88</b>	45 <b>99</b>	45 <b>92</b>
Stay radius (m) <b>ft</b>	5.5 <b>18</b>	8 <b>26</b>	8/10 <b>26/33</b>	8/10 <b>26/33</b>	8/13 <b>26/43</b>	8/10 <b>26/33</b>	8/10 <b>26/33</b>
Number of sections	5	4	5	6	6	6	5
Number of stays x levels	3x2	4x3	4x3	4x3	4x3	4x3	4x3
Max wind speed (m/s) <b>mph</b>	36 <b>80</b>	35.6 <b>80</b>	30 <b>67</b>	36 <b>80</b>	35.6 <b>80</b>	30 <b>67</b>	33 <b>74</b>
Max vertical topload (kg) <b>lbs</b>	12 <b>27</b>	50 <b>110</b>	50 <b>110</b>	20 <b>44</b>	20 <b>44</b>	25 <b>55</b>	35 <b>77</b>
Antenna attachment (mm)	Ø50	Ø50	Ø50	Ø50	Ø50	Ø50	Ø50

# Telescopic Masts and Accessories



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# Telescopic Masts for High Demands

Wibe is the leading global supplier of mobile telescopic masts. We have supplied thousands of masts to the armed forces worldwide. Our telescopic masts are designed to meet the most demanding requirements of modern communication and surveillance where they are used to support various types of payloads.

## ► All weather capability.

All of our telescopic masts, both military and commercial, feature the unique and proven all-weather design features of space between sections allowing the masts to be raised or lowered with an accretion of ice or sand. It has been proven that the masts perform excellently in arctic and tropical areas as well as in desert environments.

## ► A rugged easy to operate design.

The masts are light-weight, compact and easy to transport and erect.

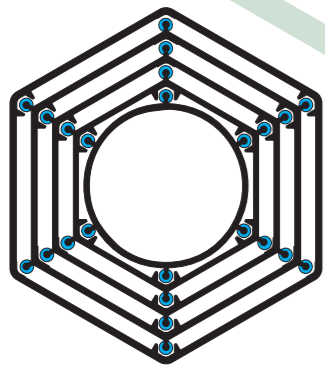
## ► Experience.

Wibe has decades of experience working with our industry partners and equipment integrators to provide the customer with the right material solution to meet their specific needs.

## ► Standard and tailor-made solutions.

Although Wibe provide a number of standardised products, we appreciate that no two customers are the same and therefore we can always offer you a tailored made solution.

## Excellent Torsional Resistance



All of our masts are made of extruded hexagonal and circular aluminium alloy tubes with screws and rivetted fittings in stainless steel.

The hexagonal sections move inside each other on plastic guideways which provide the mast with excellent torsional resistance.

The design with the free space between sections enables reliable operations in arctic through desert environments.



## ► Transport and Operational Assist Accessories.

The MecPAM with its electric powered movement control with manual crank backup provides for the safe, quick and precise deployment and recovery of 25 meter mast with demanding head loads by a crew of two.

## ACCESSORIES

► Wibe's accessories are designed and manufactured to resist external forces and to ensure quick and safe deployment by a two person crew. With a wide range of accessories and the adaptability of meeting the customer's needs, Wibe is the complete supplier of accessories for telescopic masts.

### VEHICLE ATTACHMENTS

- Attachments are available for various shelters, trailers and military vehicles.
- Can also be tailored to your specific requirement.
- One or two operators can quickly and safely deploy telescopic mast systems with high toploads.



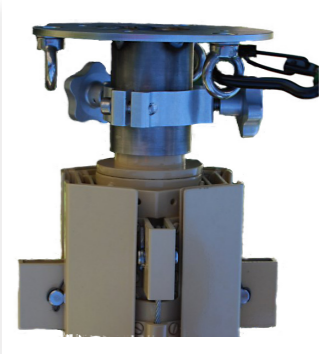
### ANTENNA DIRECTIONER



The antenna directioner enables the antenna to rotate 360 degrees and to tilt  $\pm 10$  degrees from the horizontal plane.

- The antenna directioner operates by means of two separate rope-slings with different colors.
- To increase the horizontal stability the unit can be equipped with torsional arms.
- An electric powered version is available.

### PAYLOAD INTERFACE



- We excel at providing tailored payload interfaces to meet customer application needs.

### ANTENNA BAR



- Wibe's mast mounted antenna bar enables multiple antennas.

### DOUBLE ROTATOR



- Wibe's mast mounted rotator enables two separate antennas to rotate 360 degrees independent of each other.
- The parts are made of aluminium and stainless steel.
- Electric or manual operation.